



### COURSE INCLUDES

2.4 CEU'S | Lab Manual  
Certificate of Completion | All Materials and Supplies

### REGISTRATION FORM

ENROLLMENT ARRANGEMENTS SHOULD BE RECEIVED A MINIMUM OF SEVEN DAYS PRIOR TO THE SEMINAR DATE

**PLEASE USE A SEPARATE FORM FOR EACH COURSE NUMBER**

COURSE LOCATION: \_\_\_\_\_ COURSE DATES: \_\_\_\_\_

STUDENT: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PERSON TO CONTACT IF THERE IS A CHANGE IN SCHEDULE: \_\_\_\_\_

PHONE: \_\_\_\_\_ EXT: \_\_\_\_\_

EMAIL: \_\_\_\_\_

### SELECT PAYMENT METHOD:

\_\_\_\_\_ STUDENT(s) @ \$1,795 PER PERSON TOTAL \$ \_\_\_\_\_

CHECK IS ENCLOSED

USE OUR PURCHASE ORDER NO. \_\_\_\_\_

VISA  M/C  AMEX CARD HOLDER \_\_\_\_\_

CARD NUMBER: \_\_\_\_\_ EXP. DATE: \_\_\_\_\_

### Class Schedule:

8:00 A.M. – 4:00 P.M.

LUNCH (NOT PROVIDED)

12:00 P.M. – 1:00 PM.

ENROLL TODAY, classes fill quickly

3-Day Seminar \$1,795 Per Person

On-Site Programs Available

This course is designed for anyone requiring an understanding of electricity, and needing to advance their skills further as it applies to the everyday workplace. This is NOT ONLY a seminar on electrical theory; the discussion will be on practical applications.

**"Hands-On" Training.** Students will build and experiment with circuits constructed on our fully equipped simulators. Anyone desiring an in-depth understanding and appreciation of electrical systems, component operation and troubleshooting techniques will benefit from this training. Time is spent equally between lecture and hands-on lab experiments.

### COURSE TOPICS:

- Introduction To Electricity
- Introduction To Electrical Components
- Current
- Voltage
- Resistance
- Ohm's Law
- Kirchhoff's Law
- Generator Principles
- Single Phase Distribution
- Three Phase Distribution
- Magnetism
- Transformers
- Conductivity
- Sizing Conductors
- Circuit Protection
- Circuit Protection Sizing
- Grounding
- Electrical Graphic Symbols
- Relays & Contactors
- Resistors & Capacitors
- Photocells
- Motor Starters
- Heater Sizing
- Parallel Circuits
- Series Circuits
- Ladder Logic
- Electrical Drawings
- Solenoids
- Solid State Devices

### TROUBLESHOOT CIRCUITS & COMPONENTS USED IN:

- Basic Control Circuits
- Remote Start/Stop Circuits
- Time Delay Circuits
- Reversing Circuits
- Run/Jog Circuits
- Sequencing Circuits
- Two Speed Motor Controls
- Time Delay/Off Circuits
- Overload Protection
- Transformers



### MULTIMETER USED TO TROUBLESHOOT:

- Motors
- Motor Starters
- Relays
- Limit Switches
- Photocells
- Timers
- Circuit Protection

**NOTE: Attendees should bring their own multimeter for this "Hands-On" training**

